

REMARKS

INTRODUCTION

In accordance with the foregoing, claims 3, 7, 8, 11, 12 and 16 have been amended. Claims 17-19 have been cancelled. Claims 1-16 are pending and under consideration.

CLAIM REJECTION – 35 USC 103

Claims 1, 2, 4-6, 9, 10, 12-15 and 17-19 were rejected under 35 USC 103(a) as being unpatentable over Woods (US 1,919,970) (hereinafter "Woods") in view of Browne (US 2,482,462) (hereinafter "Browne").

Woods discusses an impeller. In Woods, the impeller 10 includes a center member 11 to which are integrally secured vanes 12-15. Arranged on opposite sides of the center member 11 are the end members or shrouds 17 and 18. A plurality of vanes 20-23 are formed integrally with the shroud 17. Similarly, vanes 24-27 are formed integrally with the shroud 18. When the impeller 10 is assembled, the vanes on the respective shrouds are in alignment with one another. Woods, page 1, lines 48-64.

Browne discusses centrifugal compressor construction. In Browne, a plurality of circumferentially spaced vanes 20 are formed integral with the hub portion 16 and the annular wall 18. Browne, 1:54-2:2. Further in Browne, each pair of vanes 20 and 26 is provided with a lap joint which may be welded, brazed or otherwise secured together. Brown, 2:50-2:53 and Figures 1 and 2.

Independent claims 1 and 4 recite "...a plurality of blades radially arranged on a peripheral area of a front face of the rotating plate..." Claims 8 and 12 have been amended to recite that the blades are arranged on a peripheral area of a front face of the rotating plate. In contrast to claims 1, 4, 8 and 12, neither Woods nor Browne discusses blades arranged on a peripheral area of the rotating plate. In both Browne and Woods, the blades are arranged to extend radially from the center of the rotating plate, not to be positioned at the periphery of the plate as is recited in claims 1, 4, 8 and 12. Further, Woods and Browne discuss impellers, not a turbo fan as is recited in independent claims 1, 4, 8 and 12. The arrangement of the blades patentably distinguishes over both Woods and Browne.

Claims 2, 5, 6, 9, 10 and 13-15 depend from one of claims 1, 4, 8 and 12, respectively, and are therefore believed to be allowable for the foregoing reasons. Further, claims 2, 5, 6, 9, 10 and 13-15 patentably distinguish over Woods and Browne, taken alone or in combination. For example, claim 2 recites that the first plane surfaces of the ends of the first blade parts are formed to be parallel to the front face of the rotating plate.

Claims 17-19 have been cancelled.

Withdrawal of the foregoing rejection is requested.

ALLOWABLE SUBJECT MATTER

The Applicant's acknowledge with appreciation that claims 3, 7, 11 and 16 have been allowed. Claims 3, 7, 11 and 16 have been amended to correct a misspelled word in the last line of each claim.

CONCLUSION

If there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

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By: Gregory W. Harper
Gregory W. Harper
Registration No. 55,248

1201 New York Ave, N.W., Suite 700
Washington, D.C. 20005
Telephone: (202) 434-1500
Facsimile: (202) 434-1501